

Estimating the Economic Impact of Secondhand Smoke on Marion County, Indiana

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Secondhand smoke costs the residents of Marion County \$47.5 million dollars¹ annually in excess medical expenses, or about \$54 dollars per person each year. The burden of these expenses is assumed by businesses, government, and individual citizens.

Overall costs of attributed to secondhand smoke for Marion County residents in 2008 = \$47.5 million dollars

Secondhand smoke health care costs Marion County \$54 dollars per person each year.

Exposure to secondhand smoke causes many medical conditions in adults, including lung cancer, nasal sinus cancer, breast cancer, cervical cancer, ischemic heart disease, stroke, eye and nasal irritation, spontaneous abortions and asthma. In addition, other studies have suggested that exposure to secondhand smoke may be causally associated with adult leukemia, angina pectoris (severe chest pain), hearing loss, allergies, periodontal disease, dysmenorrhea (severe pelvic pain during menstruation), colds, pneumonia, meningitis, macular degeneration, congestive heart failure and cardiac arrhythmia.

Scientific evidence confirms that there is no safe, risk-free level of exposure to secondhand smoke.

Exposure of children to secondhand smoke has been linked to low birth weight, sudden infant death syndrome, respiratory syncytial virus bronchiolitis (RSV), asthma exacerbations, otitis media (middle ear infections), chronic respiratory symptoms, cystic fibrosis exacerbation, allergies, meningitis, loss of hearing and cognitive behavioral impairment. In addition, many adults and children are injured in fires started by lit cigarettes.

Nearly 100 adults, children and infants in Marion County died in 2008 from diseases definitively tied to secondhand smoke by the U.S. Surgeon General. These lives lost are entirely preventable.

¹ Based on data from 2005 hospital and 2007 death data, reported in 2008 dollars.

**Adults: Number of Deaths and Hospitalizations, and Costs
for Selected Secondhand Smoke (SHS) Related Conditions - Marion County, 2008**

Disease	# Deaths and # Hospitalizations due to SHS Exposure	Costs per Hospitalization (Adjusted to 2008 Dollars)	Total Cost (Adjusted to 2008 Dollars)
Lung Cancer	11 hospitalizations 12 deaths	\$28,943	\$318,373 hospitalization \$4,447,378 loss of life
Nasal Sinus Cancer	0 hospitalizations 1 death	\$69,600	\$0.00 hospitalization \$604,102 loss of life
Heart Disease (CHD)	255 hospitalizations 5 deaths	\$22,579	\$5,757,645 hospitalization \$2,427,527 loss of life
Breast Cancer	17 hospitalizations 19 deaths	\$15,835	\$269,195 hospitalization \$8,590,851 loss of life
Stroke	1 hospitalizations 44 deaths	\$20,451	\$20,451 hospitalization \$2,772,199 loss of life
Cervical Cancer	5 hospitalizations 1 deaths	\$22,070	\$110,350 hospitalization \$1,204,498 loss of life
Asthma	122 hospitalizations 2 deaths	\$10,695	\$1,304,790 hospitalization \$2,201,452 loss of life
		Total Hospitalization Costs	\$7,780,804
		Total Loss of Life Costs	\$22,248,007
		Total Costs	\$30,028,811

**Children: Number of Deaths and Hospitalizations, and Costs
for Selected Secondhand Smoke (SHS) Related Conditions - Marion County, 2008**

Disease	# Deaths & Health Care Utilization due to SHS exposure	Costs per Case (Adjusted to 2008 Dollars)	Total Cost (Adjusted to 2008 Dollars)
Sudden Infant Death Syndrome, age <1 year	1 deaths		\$3,706,148 loss of life
Respiratory Syncytial Virus Bronchiolitis age < 2 years	31 hospitalizations 0 deaths	\$8,733	\$270,723 Hospitalization \$0 loss of life
Acute Otitis Media age <15 years	8859 office visits 1 hospitalizations	\$127 \$7,718	\$1,125,093 office visits \$7,718 hospitalizations
Asthma age < 18 years	4120 episodes 41 hospitalizations	\$58 \$907	\$238,960 office visits \$37,187 hospitalizations
Acute Lower Respiratory, Bronchitis, Pneumonia	1 deaths		\$3,276,234 loss of life
Burns age < 15 years	41 hospitalizations 0 death	\$45,199	\$1,853,159 hospitalizations \$0 loss of life
Low Birth Weight	165 LBW births	\$23,320	\$3,847,800 other
Extreme Low Birth Weight	39 Ex LBW	\$77,422	\$3,019,458 other
Spontaneous Abortion	12 spontaneous abortions	\$8,529	\$102,348 hospitalizations
		Total Hospital Costs	\$2,271,135
		Total Other Costs	\$8,231,311
		Total Loss of Life Costs	\$6,982,382
		Total Costs	\$17,484,828

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The full study can be found at: www.itpc.in.gov on the Evaluation and Research: Key Reports and Research Articles page.

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